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Yoshinori MIYAZAWA

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APPLICATION ELEMENTS

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1. ☒ Fee Transmittal Form
2. ☒ Specification, Claims & Abstract [Total Pages: 27]
3. ☒ Drawing(s) (35 USC 113) [Total Sheets: 8]
4. ☒ Oath or Declaration [Total Pages: 3]
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18. CORRESPONDENCE ADDRESS

STAAS & HALSEY, LLP
Attn: James D. Halsey, Jr.
700 Eleventh Street, N.W., Suite 500
Washington, DC 20001Telephone: (202) 434-1500
Facsimile: (202) 434-1501

ELECTRONIC MAIL SYSTEM

BACKGROUND OF THE INVENTION

The present invention relates generally to an electronic
5 mail (E-mail) system, and more particularly to an E-mail terminal
device, an E-mail transmitting method and a readable-by-computer
medium recorded with a program which are capable of preventing
an E-mail from being mis-replied (mis-transmitted).

E-mail services have spread most as applications and
10 services in the communication networks over the recent years.
The E-mail system is defined as a technology of transmitting
and receiving mail data (including character information, voice
information and picture information) between E-mail terminal
devices connected to communications networks, i.e., between
15 computer terminals such as personal computers (PCs) and between
data terminals such as workstations (WSs).

In the E-mail system for exchanging the mail data by way
of the E-mails, a transmission of the E-mail from a certain E-mail
terminal device to other E-mail terminal device involves the
20 following processes. An address (a mail address) allocated to
the other E-mail terminal device is designated, and the mail
data are forwarded to the communications network. Then, an
E-mail server (an E-mail post) connected to the communications
network distributes the E-mails to predetermined mailboxes on
25 the basis of the addresses (transmission destination addresses,
or addresses of addressees). The E-mail terminal device on the
receiving side takes the E-mail addressed to the device itself

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Note that the existing E-mail system is constructed such that when utilizing the broadcasting function, E-mails as replies (such as answers, comments and so on) to the broadcast E-mail are transmitted to not only the E-mail terminal device having broadcast the mail but also other E-mail terminal devices having received the broadcast mail.

The broadcast for transmitting the same E-mail to the plurality of transmission destinations at one time in the conventional E-mail system, involves the use of a [mailing list]. When transmitting (replying) E-mails in response to one single request by making use of this mailing list, the E-mails are broadcast to all the members (transmitters) registered in that list, and hence this system is most efficient in the case of exchanging opinions and information between the plurality of

users.

Thus, the labor for inputting the mail addresses of a multiplicity of unspecified addressees can be saved by utilizing the mailing list when transmitting the information, and the transmission of the information can be simplified. While on the other hand, there might occur an endless chain of mistakes in which the reply mail is mis-transmitted to the address of the mailing list with an intention that the reply mail would have been given to the individual information transmitter having posted to the mailing list, and it follows that the private reply mail is broadcast to all the registered members.

Accordingly, the users are required to confirm the addressee when creating and transmitting the reply mail and designate to a correct address of the addressee, which might lead an increase in load upon the operations of the users and cause a decrease in an efficiency of utilizing the E-mail system.

SUMMARY OF THE INVENTION

Accordingly, it is a primary object of the present invention to provide an E-mail terminal device and a readable-by-computer medium recorded with a program which are capable of preventing a reply mail from being mis-transmitted to a mailing list.

It is another object of the present invention to provide a technology of enhancing an efficiency of utilizing an E-mail system by reducing a load upon operations of the users.

To accomplish the above objects, according to a first

aspect of the present invention, an E-mail terminal device comprises a judging unit which judges whether or not a reply destination mail address extracted from an E-mail received is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time, an extracting unit which extracts, when the reply destination mail address is the address of the mailing list, at least one mail address contained in a text of the E-mail received, and a selecting module which displays the at least one extracted mail address as a candidate for a reply destination from which a specified reply destination can be selected.

According to a second aspect of the present invention, an E-mail terminal device comprises a first extracting unit which extracts a reply destination mail address from a mail header of an E-mail received, a second extracting unit which extracts at least one mail address contained in a text of the E-mail received, and a selecting module which displays all the extracted mail addresses as candidates for reply destinations from which a specified reply destination can be selected.

According to a third aspect of the present invention, the E-mail terminal device according to the second aspect of the invention may further comprise a judging unit which judges whether or not the reply destination mail address is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time. The second extracting unit, when the reply destination mail address is judged to be the address of the mailing list, extracts the at least one mail

03567565 060500

address.

According to a fourth aspect of the present invention, the E-mail terminal device according to the third aspect of the invention may further comprise a storage unit including a mail
5 address book by which whether or not the reply destination mail address extracted from the mail header of the E-mail received is the address of the mailing list, can be judged.

According to a fifth aspect of the present invention, the E-mail terminal device according to the fourth aspect of the
10 invention may further comprise a processing unit which stores, if the mail address extracted from the text of the E-mail received is not registered in the mail address book, a name of this unregistered mail address as a name unknown in the mail address book in a format of corresponding to the mail address.

According to a sixth aspect of the present invention, the E-mail terminal device according to the fifth aspect of the invention may further comprise a display unit for which plays,
15 when visibly displaying all the extracted mail addresses as the reply destination candidates, the name of the mail address
20 extracted from the text of the received E-mail and unregistered in the mail address book as the name unknown in the format of corresponding to the mail address.

According to a seventh aspect of the present invention, a method of transmitting an E-mail comprises a step of judging
25 whether or not a reply destination mail address extracted from an E-mail received is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at

one time, a step of extracting, when the reply destination mail address is the address of the mailing list, at least one mail address contained in a text of the E-mail received, and a step of displaying the at least one extracted mail address as a candidate for a reply destination from which a specified reply destination can be selected.

According to an eighth aspect of the present invention, a method of transmitting an E-mail comprises a step of extracting a reply destination mail address from a mail header of an E-mail received, a step of extracting at least one mail address contained in a text of the E-mail received, and a step of displaying the at least one extracted mail address as a candidate for a reply destination from which a specified reply destination can be selected.

According to a ninth aspect of the present invention, the method of transmitting the E-mail according to the eighth aspect of the invention may further comprise a step of judging whether or not the reply destination mail address is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time, and a step of extracting, when the reply destination mail address is judged to be the address of the mailing list, the at least one mail address contained in the text of the E-mail received.

According to a tenth aspect of the present invention, the method of transmitting the E-mail according to the ninth aspect of the invention may further comprise a step of judging based on a mail address book whether or not the reply destination mail

address extracted from the mail header of the E-mail received is the address of the mailing list.

According to an eleventh aspect of the present invention, the method of transmitting the E-mail according to the tenth aspect of the invention may further comprise a step of storing, if the mail address extracted from the text of the E-mail received is not registered in the mail address book, a name of this unregistered mail address as a name unknown in the mail address book in a format of corresponding to the mail address.

According to a twelfth aspect of the present invention, the method of transmitting the E-mail according to the eleventh aspect of the invention may further comprise a step of displaying, when visibly displaying all the extracted mail addresses as the reply destination candidates, the name of the mail address extracted from the text of the received E-mail and unregistered in the mail address book as the name unknown in the format of corresponding to the mail address.

According to a thirteenth aspect of the present invention, there is provided a readably-by-computer medium recorded with a program comprising a step of judging whether or not a reply destination mail address extracted from an E-mail received is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time, a step of extracting, when the reply destination mail address is the address of the mailing list, at least one mail address contained in a text of the E-mail received, and a step of displaying the at least one extracted mail address as a candidate for a reply

destination from which a specified reply destination can be selected.

According to a fourteenth aspect of the present invention, there is provided a readably-by-computer medium recorded with
5 a program comprising a step of extracting a reply destination mail address from a mail header of an E-mail received, a step of extracting at least one mail address contained in a text of the E-mail received, and a step of displaying all the extracted mail addresses as candidates for reply destinations from which
10 a specified reply destination can be selected.

According to a fifteenth aspect of the present invention, in the readably-by-computer medium recorded with the program according to the fourteenth aspect of the invention, the program may further comprise a step of judging whether or not the reply
15 destination mail address is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time, and a step of extracting, when the reply destination mail address is judged to be the address of the mailing list, the at least one mail address contained in the text of the E-mail
20 received.

According to a sixteenth aspect of the present invention, in the readably-by-computer medium recorded with the program according to the fifteenth aspect of the invention, the program may further comprise a step of judging based on a mail address
25 book whether or not the reply destination mail address extracted from the mail header of the E-mail received is the address of the mailing list.

According to a seventeenth aspect of the present invention, in the readably-by-computer medium recorded with the program according to the sixteenth aspect of the invention, the program further comprise a step of storing, if the mail address extracted from the text of the E-mail received is not registered in the mail address book, a name of this unregistered mail address as a name unknown in the mail address book in a format of corresponding to the mail address.

According to an eighteenth aspect of the present invention, in the readably-by-computer medium recorded with the program according to the seventeenth aspect of the invention, the program may further comprise a step of displaying, when visibly displaying all the extracted mail addresses as the reply destination candidates, the name of the mail address extracted from the text of the received E-mail and unregistered in the mail address book as the name unknown in the format of corresponding to the mail address.

According to the present invention, it is feasible to prevent the reply mail from being mis-transmitted to the mailing list.

As a result, it is possible to prevent such a mistake that the mail having a private content is broadcast to all the members, whereby the privacy can be protected. Further, with a reduction of mis-transmitted E-mails, a futile consumption of resources can be decreased.

Moreover, according to the present invention, the user is cable to simply designate the mail address of the reply

destination (the mail address of the addressee), and the E-mail system can be thereby utilized efficiently.

BRIEF DESCRIPTION OF THE DRAWINGS

5 These objects and advantages of the present invention will become more apparent and more readily appreciated from the following detailed description of the presently preferred exemplary embodiments, taken in conjunction with the accompanying drawings of which:

10 FIG. 1 is a block diagram showing an architecture of an E-mail system in one embodiment of the present invention;

 FIG. 2 is a block diagram showing an example of a construction of an E-mail terminal device in FIG. 1;

 FIG. 3 is a view showing one example of a screen on which
15 a new mail address is inputted;

 FIG. 4 is a view showing one example of an E-mail posted to a mailing list;

 FIG. 5 is a flowchart showing a processing program for preventing a mis-reply;

20 FIG. 6 is a view showing one example of a mail edit screen;

 FIG. 7 is a view showing one example of a reply destination selection/confirmation screen; and

 FIG. 8 is a view showing one example of a reply mail edit screen.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Next, embodiments of the present invention will

hereinafter be described with reference to the accompanying drawings.

[Architecture of E-mail System]

FIG. 1 shows an architecture of an E-mail system in one
5 embodiment of the present invention. Referring to FIG. 1, the
E-mail system 1 includes a plurality of E-mail terminal devices
3, 4,..., 5 each accommodated in a communications network 2, and
an E-mail server (an E-mail post) 6. The communications network
2 is constructed of the Internet and an intraoffice local areal
10 network (LAN).

The E-mail terminal devices 3, 4,..., 5 are constructed of
computer terminals such as personal computers (PCs) or data
terminals such as workstations (WSs). E-mail addresses, which
are each unique, are allocated to the respective E-mail terminal
15 devices. Further, each of the E-mail terminal devices has a
mail address book. Each of the E-mail terminal devices
incorporates E-mail software (programs and data), and transmits
and receives an E-mail via the communications network 2 and the
E-mail server 6 by starting up the E-mail software. Users can
20 be thereby provided with E-mail services.

The E-mail server 6 contains a mailbox 7 and a mailing
list 8, and is constructed of, e.g., Nifty-Serve provided by
Nifty Serve Corp. as an E-mail service provider. The mailbox
7 has storage areas allocated for storing mail data per address
25 of a destination of the transmission of the E-mail. The E-mail
transmitted from a certain E-mail terminal device to other E-mail
terminal device, is stored in the corresponding storage area

in the mailbox 7, and the E-mail terminal device serving as the transmission destination reads the mail data from that storage area, thereby completing the transmission and receipt of the E-mail.

5 Note that the architecture of the E-mail system 1 is, for a simplicity of configuration, that one single E-mail server 6 distributes broadcasting-oriented E-mails which will hereinafter be described in depth.

[Construction of E-mail Terminal Device]

10 FIG. 2 illustrates a construction of the E-mail terminal device in the E-mail system 1 described above. Referring to FIG. 2, as in the case of the typical PC, each of the E-mail terminal devices includes a control unit (CPU) 11, a storage device 12 including a recording medium 13, a RAM 14, an input device 15, a display device 16 and a communications interface unit 17, which are connected to each other via an internal bus 10.

20 The CPU 11 reads from the storage device 12 the existing E-mail program and a processing program which will hereinafter be explained in details (see FIG. 5), and executes these programs. The RAM 14 is used as a main storage area of the CPU 11. The storage device 12 has the recording medium 13 stored previously with the data and the programs executed by the CPU 11. The mail address book 9 is stored on the recording medium 13. This recording medium 13 may take such a form as to be fixedly provided on or detachably attached to the storage device 12.

25 The input device 15 is constructed of a keyboard and a

mouse. The input device 15 is used for creating an E-mail and inputting commands for executing a specified program. The display device 16 is a display for visually displaying a processing result by the CPU 11 to the user. The E-mail terminal device is connected via the communications interface unit 17 to the communications network 2, whereby the E-mail is transmitted and received between the E-mail server 6 and the E-mail terminal device on the basis of indications given from the CPU 11.

10 [Broadcasting and Replying of E-mail]

Given next is an explanation of a case where in the E-mail system 1 illustrated in FIG. 1, the E-mail terminal device 3 broadcasts the E-mail to the plurality of E-mail terminal devices 4,..., 5 by use of a mailing list 8, and each of the E-mail terminal devices having received the same E-mail replies an E-mail thereto.

Referring to FIGS. 1, 2 and related Figures in combination, in the E-mail system 1, when the user on the side of transmitting the E-mail registers and edits the mail addresses in the E-mail terminal device 3, there are prepared input items for distinguishing whether or not the mail addresses to be registered and edited belong to the mailing list 8, and the user on the transmission side inputs these items.

FIG. 3 shows one example of a new input screen (window) 30 for the mail addresses. The user on the transmission side opens the screen 30 on the display device 16 of the E-mail terminal device 3. On this screen 30, the user inputs respectively (an

intraoffice mailing list] in a name (N) column 31 and
[Mlist@sample.fujitsu.co.jp] in an address (A) column 32.
Thereafter, the user clicks a check box 33 [Register it as an
address of the mailing list], and then clicks a command button
5 [OK].

The CPU 11 of the E-mail terminal device 3 transmits
contents inputted on the screen 30 to the E-mail server 6
accommodated in the communications network 2 via the
communications interface unit 17. The E-mail server 6 registers
10 the mail address received from the E-mail terminal device 3 in
the mailing list 8.

Note that mail addresses of a plurality of users (members)
are registered, in other processing by the E-mail terminal device
3, in the mailing list 8 designated by a mail address
15 [Mlist@sample.fujitsu.co.jp]. Accordingly, when the E-mail is
transmitted to the mail address of the mailing list 8, the same
E-mail is distributed (broadcasted) at one time to all the
registered members.

FIG. 4 shows one example of the E-mail posted to the mail
20 address which is, as discussed above, registered beforehand in
the mailing list 8. A transmitter [Sankaku-san (Δ)] of this
mail is a user of the E-mail terminal device 3 having a mail
address [sankaku@sample.fujitsu.co.jp]. In this example, the
members registered in the mailing list 8 are the users of the
25 E-mail terminal devices 4, ..., 5. Accordingly, the E-mail shown
in FIG. 4, which is transmitted to the mailing list 8 from the
E-mail terminal device 3, is broadcast to the plurality of E-mail

terminal devices 4, ..., 5.

Each of the users of the plurality of E-mail terminal devices 4, ..., 5 executes processes such as downloading and reading the broadcast E-mail by use of a variety of commands based on a protocol like SMTP (Simple Mail Transfer Protocol). As a result, the E-mail is displayed on the display device 16 of each of the E-mail terminal devices, and the users are able to read a content of the E-mail.

Subsequently, each user determines whether or not a reply should be given to that E-mail. In the case of replying, the operation enters an edit mode by inputting a predetermined command in order to create an E-mail for reply (processing step S501 in FIG. 5). In the edit mode, for example, the user of the E-mail terminal device 4 as one of the members starts up a mail editor to send a reply to the individual contributor to the mailing list 8. Upon the startup of the mail editor, a mail edit screen 60 shown in FIG. 6 is displayed on the display device 16 of the E-mail terminal device 4.

On this mail edit screen 60, when the user clicks a [Replay ()] command column 63 by use of the mouse, the CPU 11 extracts, out of a mail header 61, the mail address [sankaku@sample.fujitsu.co.jp] in the transmitter column (information provider: Sankaku) and the mail address [Mlist@sample.fujitsu.co.jp] in the destination column (S502 in FIG. 5) as mail addresses of replay destinations.

Next, the CPU 11 compares the thus extracted mail addresses of the replay destinations with the addresses registered in the

mail address book 9 (S503 in FIG. 5). The CPU 11, based on a result of the comparison in S503, judges whether or not the mail addresses of the reply destinations are registered in the mailing list 8 (S504 in FIG. 5). If registered, the CPU 11 extracts
5 all the mail addresses contained in a reply mail text 62 (which is simply referred to as a mail text 62). More precisely, it follows that the CPU 11 extracts character strings which can be presumed as the mail addresses (S505 in FIG. 5). As a result, the mail addresses [marux@sample.fujitsu.co.jp] and
10 [sankaku@sample.fujitsu.co.jp] are extracted.

The CPU 11 compares all these extracted mail addresses [Mlist@sample.fujitsu.co.jp], [marux@sample.fujitsu.co.jp] and [sankaku@sample.fujitsu.co.jp] with the contents (mail addresses) registered in the mail address book 9 (S506 in FIG.
15 5).

In this case, the mail addresses [Mlist@sample.fujitsu.co.jp] and [sankaku@sample.fujitsu.co.jp] are identical with the mail addresses registered in the mail address book 9, whereas the
20 mail address [marux@sample.fujitsu.co.jp] is not registered in the mail address book 9 and is not therefore identical with any addresses (S507 in FIG. 5).

Next, the CPU 11 obtains related names ([Intraoffice mailing list] and [Sankaku-san (Δ)] for the identical addresses
25 from the mail address book 9 (S508 in FIG. 5). Then, the CPU 11 stores the names and the mail addresses in a one-to-one correspondence format in the lines of the mail address book 9

(S509 in FIG. 5). Further, the CPU 11 treats the unidentical address obtained in the process in S507 as [Name unknown] because of [Marux (OX)] being unregistered in the mail address book 9 (S510 in FIG. 5). In a process of S509, [Unknown name] of the addressee and the mail address corresponding thereto are stored in the lines of the mail address book 9.

The CPU 11, when finishing the comparison between the all the extracted mail addresses and the contents registered in the mail address book 9 (S511 in FIG. 5), displays those extracted mail addresses in the form of a reply destination candidate list on the display device 16, whereby the users on the receiving side are able to select a reply destination from this list (S512 in FIG. 5). With this processing, a reply destination selection/confirmation screen 70 shown in FIG. 7 is displayed on the display device 16.

In this case, a mail address of the intraoffice mailing list as a reply destination is indicated at a header of the list, and the remaining mail addresses are hereinafter listed up in the sequence of their being extracted. The reply E-mail should be transmitted to only [Marux (OX)] having the mail address [marux@sample.fujitsu.co.jp], and hence the user clicks the corresponding column on the reply destination selection/confirmation screen 70 and further the command button [OK] by manipulating the mouse of the input device 15 (S513) in FIG. 5).

With this operation, the CPU 11 actuates the mail editor and displays a reply mail edit screen 80 shown in FIG. 8 on the

display device 16. When this screen 80 is displayed, the mail address [marux@sample.fujitsu.co.jp] is indicated in a destination (0) 81 in the address column. The user creates the mail text 82 for the reply on the screen 80, and thereafter inputs
5 a transmission command for the reply mail (S514 in FIG. 5).

As a result, the mail address of the individual person [Marux-san (OX)] as a reply destination can be picked up from the reply destination candidate list on the reply destination selection/confirmation screen 70, and a mis-transmission (a
10 mis-reply) to the mailing list 8 can be thereby prevented.

Note that the CPU 11, if not coincident with the judging condition in the processes in S501 and S504, exits this processing program.

As discussed above, the contrivance in this embodiment
15 is that it is judged whether or not the reply destination mail address is registered as the address of the mailing list, and, if registered as the address of the mailing list, the mail address contained in the mail text is picked out. The present invention is not limited to this method.

20 Namely, in the case of creating the reply mail without judging whether it is the address of the mailing list or not (skipping over the processes in S503 and S504 in FIG. 5), there may be taken such a contrivance that the mail addresses contained in the mail header and text of the mail received are displayed
25 as reply destination candidates on the display device 16.

With this contrivance being taken, the user is able to simply specify the mail address of a reply destination (a

transmitting destination mail address) of the E-mail, whereby the E-mail system can be utilized efficiently.

Although only a few embodiments of the present invention have been described in detail above, those skilled in the art will readily appreciate that many modifications are possible in the preferred embodiments without departing from the novel teachings and advantages of the present invention. Accordingly, all such modifications are intended to be included within the scope of the present invention as defined by the following claims.

WHAT IS CLAIMED IS:

1. An E-mail terminal device comprising:

a judging unit which judges whether or not a reply destination mail address extracted from an E-mail received is
5 an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time;

an extracting unit which extracts, when the reply destination mail address is the address of the mailing list, at least one mail address contained in a text of the E-mail
10 received; and

a selecting unit which displays the at least one extracted mail address as a candidate for a reply destination from which a specified reply destination can be selected.

15 2. An E-mail terminal device comprising:

a first extracting unit which extracts a reply destination mail address from a mail header of an E-mail received;

a second extracting unit which extracts at least one mail address contained in a text of the E-mail received; and

20 a selecting unit which displays all the extracted mail addresses as candidates for reply destinations from which a specified reply destination can be selected.

25 3. An E-mail terminal device according to claim 2, further comprising:

a judging unit which judges whether or not the reply destination mail address is an address of a mailing list capable

of broadcasting the same E-mail to a plurality of destinations at one time,

wherein the second extracting unit, when the reply destination mail address is judged to be the address of the mailing list, extracts the at least one mail address.

4. An E-mail terminal device according to claim 3, further comprising:

a storage unit including a mail address book by which whether or not the reply destination mail address extracted from the mail header of the E-mail received is the address of the mailing list, can be judged.

5. An E-mail terminal device according to claim 4, further comprising:

a processing unit which stores, if the mail address extracted from the text of the E-mail received is not registered in the mail address book, a name of this unregistered mail address as a name unknown in the mail address book in a format of corresponding to the mail address.

6. An E-mail terminal device according to claim 5, further comprising:

a display unit which displays, when visibly displaying all the extracted mail addresses as the reply destination candidates, the name of the mail address extracted from the text of the received E-mail and unregistered in the mail address book

as the name unknown in the format of corresponding to the mail address.

7. A method of transmitting an E-mail, comprising:

5 a step of judging whether or not a reply destination mail address extracted from an E-mail received is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time;

10 a step of extracting, when the reply destination mail address is the address of the mailing list, at least one mail address contained in a text of the E-mail received; and

 a step of displaying the at least one extracted mail address as a candidate for a reply destination from which a specified reply destination can be selected.

15

8. A method of transmitting an E-mail, comprising:

 a step of extracting a reply destination mail address from a mail header of an E-mail received;

20 a step of extracting at least one mail address contained in a text of the E-mail received; and

 a step of displaying all the extracted mail addresses as candidates for reply destinations from which a specified reply destination can be selected.

25

9. A method of transmitting an E-mail according to claim

8, further comprising:

 a step of judging whether or not the reply destination

mail address is an address of a mailing list capable of broadcasting the same E-mail to a plurality of destinations at one time; and

5 a step of extracting, when the reply destination mail address is judged to be the address of the mailing list, the at least one mail address contained in the text of the E-mail received.

10 10. A method of transmitting an E-mail according to claim 9, further comprising:

a step of judging based on a mail address book whether or not the reply destination mail address extracted from the mail header of the E-mail received is the address of the mailing list.

15 11. A method of transmitting an E-mail according to claim 10, further comprising:

20 a step of storing, if the mail address extracted from the text of the E-mail received is not registered in the mail address book, a name of this unregistered mail address as a name unknown in the mail address book in a format of corresponding to the mail address.

25 12. A method of transmitting an E-mail according to claim 11, further comprising:

a step of displaying, when visibly displaying all the extracted mail addresses as the reply destination candidates,

the name of the mail address extracted from the text of the received E-mail and unregistered in the mail address book as the name unknown in the format of corresponding to the mail address.

5 13. A readably-by-computer medium recorded with a program comprising:

 a step of judging whether or not a reply destination mail address extracted from an E-mail received is an address of a mailing list capable of broadcasting the same E-mail to a
10 plurality of destinations at one time;

 a step of extracting, when the reply destination mail address is the address of the mailing list, at least one mail address contained in a text of the E-mail received; and

 a step of displaying the at least one extracted mail address
15 as a candidate for a reply destination from which a specified reply destination can be selected.

 14. A readably-by-computer medium recorded with a program comprising:

20 a step of extracting a reply destination mail address from a mail header of an E-mail received;

 a step of extracting at least one mail address contained in a text of the E-mail received; and

 a step of displaying all the extracted mail addresses as
25 candidates for reply destinations from which a specified reply destination can be selected.

15. A readably-by-computer medium recorded with a program according to claim 14, further comprising:

a step of judging whether or not the reply destination mail address is an address of a mailing list capable of
5 broadcasting the same E-mail to a plurality of destinations at one time; and

a step of extracting, when the reply destination mail address is judged to be the address of the mailing list, the at least one mail address contained in the text of the E-mail
10 received.

16. A readably-by-computer medium recorded with a program according to claim 15, further comprising:

a step of judging based on a mail address book whether
15 or not the reply destination mail address extracted from the mail header of the E-mail received is the address of the mailing list.

17. A readably-by-computer medium recorded with a program
20 according to claim 16, further comprising:

a step of storing, if the mail address extracted from the text of the E-mail received is not registered in the mail address book, a name of this unregistered mail address as a name unknown in the mail address book in a format of corresponding
25 to the mail address.

18. A readably-by-computer medium recorded with a program

according to claim 17, further comprising:

a step of displaying, when visibly displaying all the extracted mail addresses as the reply destination candidates, the name of the mail address extracted from the text of the received

5 E-mail and unregistered in the mail address book as the name
unknown in the format of corresponding to the mail address.

FIG.1

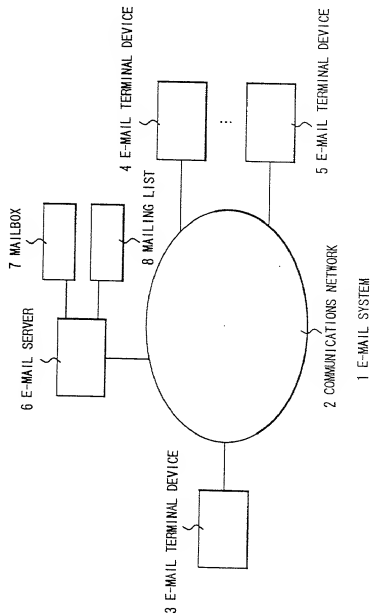


FIG.3

30 NEW INPUT SCREEN

INPUT OF NEW MAIL ADDRESS

NAME (N) INTRAOFFICE MAILING LIST

ADDRESS (A) Mlist @ sample.fujitsu.co.jp

☒ REGISTER IT AS ADDRESS OF MAILING LIST

OK CANCEL

FIG.4

E-MAIL POSTED TO MAILING LIST

From:Sankaku<sankaku @ sample.fujitsu.co.jp>
To:Mlist @ sample.fujitsu.co.jp

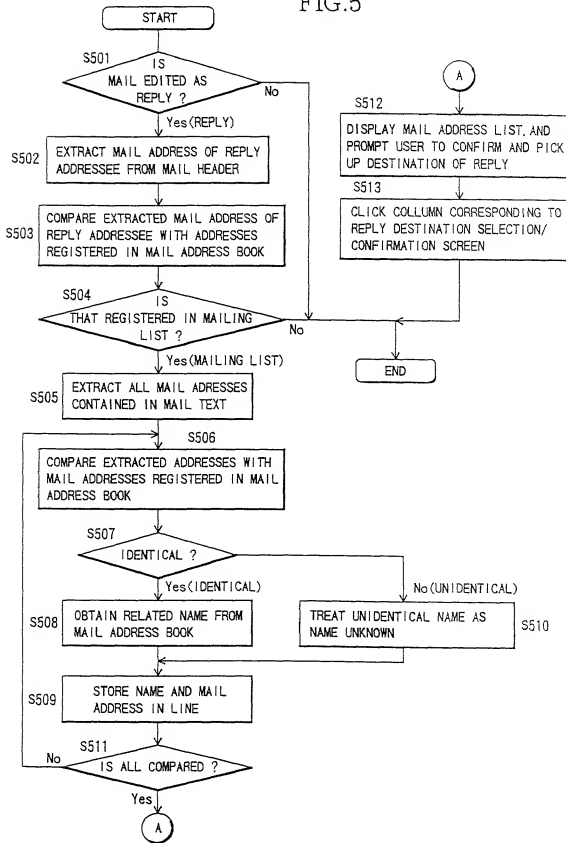
DEAR SIRs:

PLEASE, CONFIRM YOUR OFFICE AND EXTENSION NUMBER BY URL.
IF WRONG, PLEASE GIVE INFORMATION TO ○ ×
(marux@sample.fujitsu.co.jp) IN GENERAL AFFAIRS SECTION.

<http://www.sample.fujitsu.co.jp/db/index.htm>

△ IN GENERAL AFFAIRS SECTION, GENERAL AFFAIRS
DEPARTMENT, FUJITSU CO., LTD.
Mail To:sankaku@sample.fujitsu.co.jp

FIG.5



GO MAIL EDIT SCREEN

FIG. 6

FM BOOK-MAIL [My_Note]				FILE (F) EDIT (E) MAIL (M) DISPLAY (V) FUNCTION (W) SHIFT OF LAYOUT (G) SETTING (S) TOOL (T) HELP (H)			
MONTHLY SCHEDULE	WEEK SCHEDULE	DAY SCHEDULE	OPERATION ITEM	CONTACT PLACE	ADDRESS BOOK		
			UNREAD	TRANSMITTER	TITLE		
			<input checked="" type="checkbox"/> <input type="checkbox"/>	AAAAAAA [Mlist:00032]INFORMATION ITEM			
			<input type="checkbox"/> <input checked="" type="checkbox"/>	ZZZZZZZZ [Mlist:00033]DISCUSSING NEXT TIME			
			<input checked="" type="checkbox"/> <input type="checkbox"/>	△ [Mlist:00034]CONFIRM			
			<div>61 MAIL HEADER</div> <p> TITLE: [Mlist:00034]CONFIRM TRANSMITTER: △<Sankaku@sample.fujitsu.co.jp> DESTINATION: INTRAOFFICE MAILING LIST <Mlist@sample.fujitsu.co.jp> </p>				
			<div>62 MAIL TEXT</div> <p> DEAR: PLEASE CONFIRM YOUR OFFICE AND EXTENSION NUMBER BY URL. IF WRONG, PLEASE GIVE INFORMATION TO O× (marux@sample.fujitsu.co.jp) IN GENERAL AFFAIRS SECTION. http://www.sample.fujitsu.co.jp/db/index.htm △IN GENERAL AFFAIRS SECTION, GENERAL AFFAIRS DEPARTMENT, FUJITSU CO., LTD. Mail To: sankaku@sample.fujitsu.co.jp </p>				
						OPEN (O) SAVING IN TEXT FORMAT (T) PRINTING (P)	
						REPLY (R) REPLYING TO ALL MEMBERS (L) TRANSFER (M) FORWARDING (E) SHIFT TO FOLDER (M) COPY TO FOLDER (C) DELETE (D) UNREAD (E) ALREADY READ (U) SIMPLE SEARCH (F) CREAT MAIL STICKER (K) DISPLAY NAME OF ITEM (V) FILTER (P) REARRANGING (S) LIST (L) THREAD (T)	

FIG.7

70 REPLY DESTINATION SELECTION/CONFIRMATION SCREEN

PLEASE, CONFIRM WHETHER REPLY DESTINATION IS CORRECT OR NOT ☐

PICK UP REPLY DESTINATION FROM LIST WHEN REPLYING
TO DESTINATION EXCLUDING MAILING LIST

NAME	ADDRESS
INTRAOFFICE ML	Mlist @ sample.fujitsu.co.jp
<NAME UNKNOWN>	marux @ sample.fujitsu.co.jp
SANKAKU-SAN	sankaku @ sample.fujitsu.co.jp

FIG.8

80 REPLY MAIL EDIT SCREEN

Re:PLEASE CONFIRM-MAIL EDITOR		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
MAIL (M) EDIT (E) TOOL (T) HELP (H)			
DESTINATION (D)	marux@sample.fujitsu.co.jp		
CC			
TITLE (S)	Re:PLEASE CONFIRM		
PROTOTYPE (D)	CREATION OF NEW MAIL	IMPORTANCE: NORMAL	ATTACHMENT (A)
MIYAZAWA@MIYAMITAMA PASO KAITO DAI-YON KAIHATSU <div style="text-align: center;"> -THAT'S ALL - KATSUNORI MIYAZAWA, FOURTH DEVELOPMENT SS PROJECT, FUJITSU PERSONAL COMPUTER DEVELOPMENT/GENERAL CONTROL DEPARTMENT E-Mail: yaruyaru@nm.paso.fujitsu.co.jp/Nifty-Serve:NAC01135 </div>			

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Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名を発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私生活、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ELECTRONIC MAIL SYSTEM

上記発明の明細書（下記の欄でX印がついていない場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

☐ 月 日に提出され、米国出願番号または特許協定条約国際出願番号を _____ とし、
（該当する場合） _____ に訂正されました。

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PCT International Application Number
_____ and was amended on
_____ (if applicable).

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I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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Japanese Language Declaration

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Prior Foreign Application(s)

外国で先行出願

11-302548

Japan

25/10/1999

Priority Not Claimed

優先権主張なし

(Number)
(番号)

(Country)
(国名)

(Day/Month/Year Filed)
(出願年月日)

☐

(Number)
(番号)

(Country)
(国名)

(Day/Month/Year Filed)
(出願年月日)

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(出願番号)

(Filing Date)
(出願日)

(Status: Patented, Pending, Abandoned)
(状況: 特許許可済、係属中、放棄済)

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Status: Patented, Pending, Abandoned)
(状況: 特許許可済、係属中、放棄済)

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として、下記の者を指名いたします。(弁護士、または代理
人氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint
the following attorney(s) and/or agent(s) to prosecute this
application and transact all business in the Patent and Trademark
Office connected therewith (list name and registration number)

James D. Halsey, Jr., 22,729; Harry John Staas, 22,010; David M. Pitcher, 25,908; John C. Garvey, 28,607; J. Randall Beckers, 30,358;
William F. Herbert, 31,024; Richard A. Gollhofer, 31,106; Mark J. Henry, 36,162; Gene M. Garner II, 34,172; Michael D. Stein, 37,240; Paul
I. Kravetz, 35,230; Gerald P. Joyce, III, 37,648; Todd E. Marlette, 35,269; Harlan B. Williams, Jr., 34,756; George N. Stevens, 36,938;
Michael C. Soldner, P-41,455 and William M. Schertler, 35,348 (agent)

書類送付先

Send Correspondence to:

STAAS & HALSEY
700 Eleventh Street, N.W.
Suite 500
Washington, D.C. 20001

直接電話連絡先 (名前及び電話番号)

Direct Telephone Calls to: (name and telephone number)

STAAS & HALSEY
(202) 434-1500

唯一または第一発明者名	Full name of sole or first inventor	
	Yoshinori MIYAZAWA	
発明者の署名	Inventor's signature	Date
	<i>Yoshinori Miyazawa</i>	May 13, 2000
住所	Residence	
	Inagi-shi, Tokyo, Japan	
国籍	Citizenship	
	Japan	
私書箱	Post Office Address	
	c/o Fujitsu Personal Computer Systems Limited, 1405, Ooaza, Oomaru, Inagi-shi, Tokyo, Japan	
第二共同発明者	Full name of second joint inventor, if any	
第二共同発明者	Second inventor's signature	Date
住所	Residence	
国籍	Citizenship	
私書箱	Post Office Address	

(第三以降の共同発明者についても同様に記載し、署名をす
ること)

(Supply similar information and signature for third and subsequent
joint inventors.)